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UTILITY PATENT APPLICATION **TRANSMITTAL**

HA-87 (HAL-ID 202) Attorney Docket No. First Inventor Carl SCARPA A NOVEL OFDM CHANNEL ESTIMATION TECHNIQUE USING THE CONSTANT MODULUS EL836805585US Express Mail Label No.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICA	TION ELEMENTS		ADDR	RESS TO: Ass	istant Cor Patent Ap	nmissi oplicati	oner for Patents on
See MPEP chapter 600 con	cerning utility patent application conte	nts.		Wa	shington,	DC 20	231
1 X Fee Transmittal F	orm (e.g., PTO/SB/17) luplicate for fee processing)		• —	CD-ROM or CD-R II	•		e table or
Applicant claims See 37 CFR 1.27.	small entity status.		8. Nucleo	otide and/or Amino A licable, all necessary	cid Seque	-	ubmission
3 Specification (preferred arrangement	[Total Pages 3 4]		a.	Computer Readat	•	CRF)	
- Descriptive title				r cification Sequence	Listing or	u.	
- Statement Rega	arding Fed sponsored R & D			CD-ROM	or CD-R (2	copie	s); or
	equence listing, a table, program listing appendix			paper			
- Background of - Brief Summary			C	Statements verify			 _
	n of the Drawings (if filed)			COMPANYING	APPLIC	ATIO	N PARTS
- Claim(s) - Abstract of the	•		9. 🗵	Assignment Pape 37 CFR 3.73(b) St	atement	sheet 8	Power of
	7	٦.		(when there is an a		∟ ent <i>(if a</i>	ו∟ Attorney ממונמטוe)
• • • • • • • • • • • • • • • • • • • •	J.S.C. 113) [Total Sheets //wer of Attorney [Total Pages 3	」]] ₁	12.	Information Disclo	sure	×	3
a. X Newly exect	uted (original or copy)	_ I	13	Statement (IDS)/P Preliminary Amen			Chadons
, Copy from a	prior application (37 CFR 1.63 (d)) conldivisional with Box 18 completed)		14.	Return Receipt Pe (Should be specific	ostcard (N ally itemiz	MPEP (ed)	503)
	ION OF INVENTOR(S)		15.	Certified Copy of I	Priority Do		nt(s)
named in	atement attached deleting inventor(s) the prior application, see 37 CFR		16.	(if foreign priority is Nonpublication Req	uest under	· 35 U S	S.C. 122
1 63(d)(2)	and 1 33(b)		10.	(b)(2)(B)(i). Applic or its equivalent.	ant must	attach	form PTO/SB/35
6 Application Data	Sheet. See 37 CFR 1.76		17.	•			
	ATION, check appropriate box, and suppl	ly the requ	isite informa	ation below and ın a p	reliminary a	amendr	ment,
or in an Application Data She	et under 37 CFR 1 76: Divisional Continuation-in-part	(CID)	-6	ny annivention No.			
Prior application information	Examiner	(UP)		or application No.: oup Art Unit.			
For CONTINUATION OR DIVI	SIONAL APPS only The entire disclosure	e of the pr	or application	on, from which an oath	or declar	ation is	supplied under
Box 5b, is considered a part of The incorporation can only be i	the disclosure of the accompanying cont relied upon when a portion has been inad	tinuation o ivertently	r divisional a omitted from	application and is here in the submitted applica	eby incorpo ation parts.	rated b	y reference
	19. CORRES	PONDEN	CE ADDRE	SS			
Customer Number or Bar Coo	de Label (Insert Customer No or Atta		label here)	or	Correspond	dence add	dress below
Name	Straub & Pokotylo			-			
<u> </u>	1 Bethany Road						
Address	Suite 83, Bldg. 6						
City	Haziet	S	tate N	l <u>.</u> J.	Zip (Code	07730
Country	USA	Teleph	one (7	32) 335-1222	F	ax	(732) 335-1228
Name (PrintlType)	Michael P. Straub		Registra	ation No. (Attorneyl.	Agent)	36,9	41
Signature	muchael Blts	21.5/-			Date	Your	ary > 2002

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT

(\$) 1,314.00

Complete if Known			
Application Number	Not yet assigned		
Filing Date	Herewith		
First Named Inventor	Carl SCARPA		
Examiner Name	Not yet assigned		
Group Art Unit	Not yet assigned		
Attorney Docket No.	HA-87 (HAL-ID 202)		

METHOD OF PAYMENT	FEE CALCULATION (continued)				
1. X The Commissioner is hereby authorized to.	3. ADDITIONAL FEES				
Deposit 50-1049	Large Small Entity Entity				
Account Number 50-1049	Fee Fee Fee Fee Pescription	Fee Paid			
Deposit Account Straub & Pokotylo	Code (\$) Code (\$) 105 130 205 65 Surcharge - late filing fee or oath				
Account Name Straub & Tokotylo	, , , , , , , , , , , , , , , , , , ,				
Charge any deficiency or credit any overpayment	127 50 227 25 Surcharge - late provisional filing fee or cover sheet				
Applicant claims small entity status	139 130 139 130 Non-English specification	ļ 			
See 37 CFR 1 27	147 2,520 147 2,520 For filing a request for ex parte reexamination				
2. X Payment Enclosed: X Check Credit card Money Order Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action				
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action				
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month				
Large Entity Small Entity	116 400 216 200 Extension for reply within second month				
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 920 217 460 Extension for reply within third month				
101 740 201 370 Utility filing fee 740.00	118 1,440 218 720 Extension for reply within fourth month				
106 330 206 165 Design filing fee	128 1,960 228 980 Extension for reply within fifth month				
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal				
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal				
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing	L			
202-2-1 (2) [20-2-2-2-7]	138 1,510 138 1,510 Petition to institute a public use proceeding				
SUBTOTAL(1) (\$) 740.00	140 110 240 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES	141 1,280 241 640 Petition to revive - unintentional				
Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)	<u> </u>			
Total Claims 31 -20** = 11 X 18 = 198.00	143 460 243 230 Design issue fee				
Independent 7 - 3** = 4 X 84 = 336.00	144 620 244 310 Plant issue fee				
Multiple Dependent	122 130 122 130 Petitions to the Commissioner				
1	123 50 123 50 Processing fee under 37 CFR 1 17(q)				
Large Entity Small Entity Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure	<u> </u>			
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)	40.00			
102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection				
104 280 204 140 Multiple dependent claim, if not paid	(37 CFR § 1.129(a)) 149 740 249 370 For each additional invention to be				
109 84 209 42 **Reissue independent claims over onginal patent	examined (37 CFR § 1 129(b))				
**Reissue claims in excess of 20 110 18 210 9 and over original patent	179 740 279 370 Request for Continued Examination (RCE)				
	169 900 169 900 Request for expedited examination	_			
SUBTOTAL (2) (\$) 534.00	of a design application Other fee (specify)				
**or number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.	00			

SUBMITTED BY				Complete (if	Complete (if applicable)		
Name (Pnnt/Type)	Michael P. Straub	Registration No (Attorney/Agent)	36,941	Telephone	(732) 335-1222		
Signature	Muchael	8 Strawb		Date	1/7/02		

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